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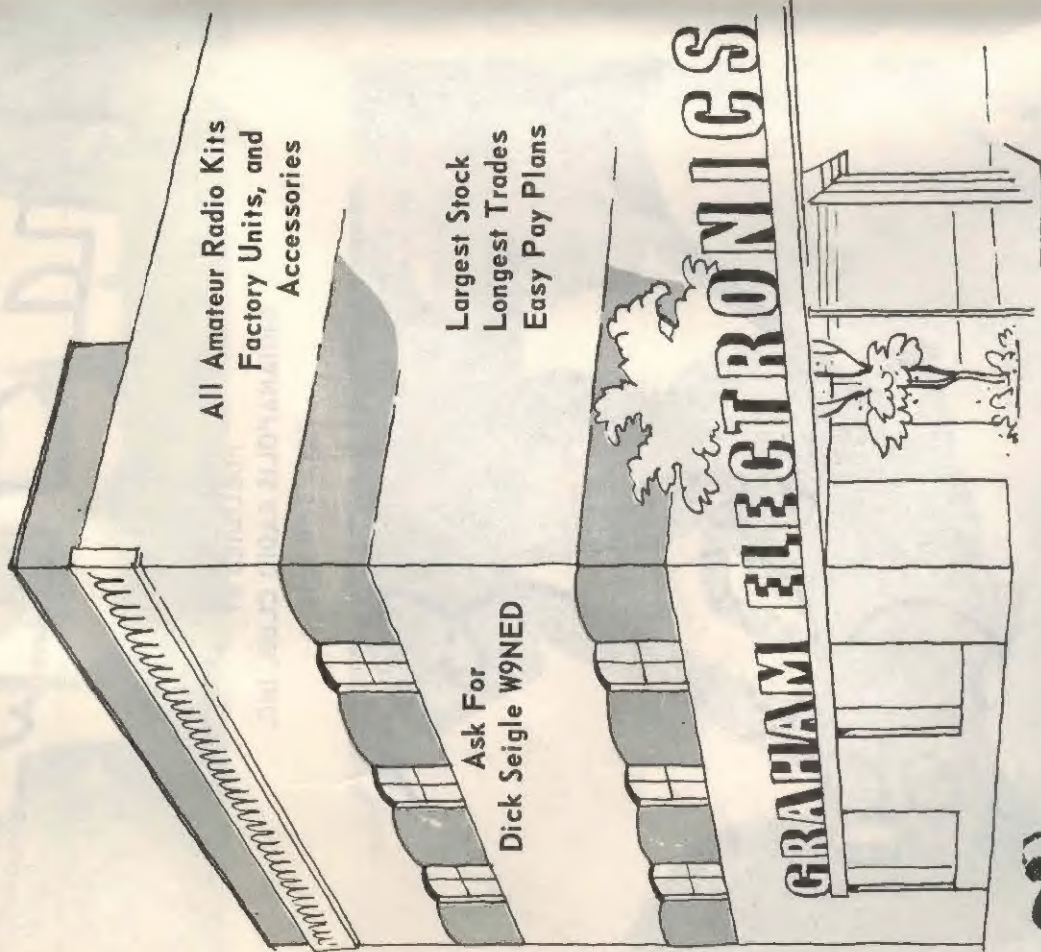
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PLENTY OF FREE PARKING

The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8 p.m. EST.

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Publication is on the third Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

As most of you are aware, 1964 marks the club's 50th anniversary. This is unique, because although I am sure there were earlier radio clubs, none have held regular meetings continuously through two wars and a police action, flood, famine, poverty, and the other ills that beset most clubs, so far as we have been able to determine.

The Indianapolis Radio Club has held regularly scheduled meetings during all that time, and I feel that we should lay claim to the distinction of being the oldest continuously active radio club in the United States, if not the world.

Your board of directors is planning an appropriate Golden Anniversary meeting for sometime in the fall, and in the meantime each member can help by spreading the news, lining up ~~old timers~~ (oops) Pioneers, brushing up their best stories about the Good Ol' Days, and resurrecting old gear for the celebration.

Let's all work to make this a real whinging, for after all, you don't celebrate a Golden Anniversary every day.

73,

W9APJ

* * * * *

COVER STORY

On this month's cover are two members of the Ninety-Nines, women's pilot organization for whom the IRC will be coordinating communications in April during "airlifts" to raise money for the state airmarking fund. A recent drill, conducted by Walt Smith, WA9BHV, as Net Control Station, was a smooth operation with numerous stations over the state checking in as requested and supplying communications to all airports included in the drill. Our thanks to public-spirited hams over the state who are helping make this IRC project a success. Regretably, only one additional member of the IRC checked in, although this project has been discussed at every meeting since the first of the year. Come now, where are all those enthusiastic 6-meter operators in the membership?

Mar. 27 -- Dick Judkins, who has given the club several fine programs on transistors and diodes, will talk on "Transistorized Ignition Systems." Dick is Chief Electrical Engineer of Esterline Angus Instrument Co., and knows his subject from A to Z. This coupled with his experience in the teaching field makes for an interesting and informative program.

April 10 -- Bill Branche, K9CLO, will give a program on "Cubical Quad Antennas." Bill is employed by Bryant Heater Co. as an electrical engineer and has served a hitch with the FOC monitoring division. He is an ardent DXer and an expert on quads, so here is an excellent chance to learn how to tame the pesky critters.

April 24 -- Walt Smith, WA9BHV, who is Chief of Communications for a big chunk of the NYC railroad, will present a program entitled "FM, What Is It?" If any of you were along on the inspection trip to Avon Yards, you know that Walt is certainly an expert in this field. If you have any questions on FM, here is a chance to get the answers.

May 8 -- Homebrew Night

May 22 -- Auction

June 26 -- Set up for Field Day (June 27-28). The date for Field Day was incorrect in the last issue.

Plus Selected Short Subjects

* * * * *

ARRL ACTIVITIES CALENDAR

(Dates in GMT)

- Mar. 28-29 CW DX Contest
- Apr. 2 W6OWP CP Qualifying Run
- Apr. 11-13 CW CD Party
- Apr. 15 W1AW CP Qualifying Run
- Apr. 18-21 Phone CD Party
- Jun 13-14 VHF QSO Party
- Jun 27-28 Field Day

Support the ARRL -- your effective voice in ham radio. Let's make the IRC a 100% ARRL club.

PROGRAM REVIEW

By Jerry Lucas W9APJ

February 14, 1964

This program was really four programs in one.

First, Marsh Lincoln, K9KTL, gave the members a number of hints on operating technique as applied to phone operation. Marsh stressed the fact that using the minimum power required to maintain contact was the proper procedure in all contacts. Leaving the gain of the receiver alone and reducing the transmitter power in SSB contacts especially was much to be preferred to the usual method of backing down the RF gain of the receiver. He also reminded the members of the importance of operating far enough inside the band so that any part of the emission is still inside the band, of not testing on the air unnecessarily, of zero beating exactly in round tables and net operation, and keeping transmissions short. Marsh also commented on the unnecessary use of Q signs on phone and the use of "we" when you mean "I." He added that the Golden Rule was as important in amateur radio as Ohm's Law and that the Amateur's Creed should be "LISTEN FIRST."

Harry Smith, W9TT, certainly an expert if one can be found, then talked about traffic handling techniques on CW. One of Harry's first statements was "Be courteous." He then emphasized the importance of sending at a speed at which you can copy comfortably, and learning to zero beat the net frequency, because many CW stations are equipped with 100-cycle-wide receivers. Break in, he said, was imperative in CW operation, and a good break in system will eliminate the need for lengthy fills. Harry also stressed the importance of using minimum power and told of his experiences with 10 milliwatts input with a transistorized transmitter.

Ed Ward, K9CRS, in his portion of the discussion, emphasized the importance of the Net Control Station, and stated that a net could be only as good as this station's operator. It was imperative, he said, that the NCS have a signal that can be heard by all net members, and a receiver that can receive all members. Ed emphasized that all net members answer the NCS promptly, transmit only to the NCS except for emergency traffic, and notify the NCS before signing out.

Claude Richie, W9TKV, then described good DX procedures.

Claude opened by saying that hams could improve the image of the U.S. by sending old call books and equipment to needy foreign hams. In working DX, Claude said, try to match the code speed of the DX station, and in most cases do not try to zero beat his frequency. He also explained tail ending and how the practice was frowned on by most hams but also indulged in by many. Claude said to avoid calling "CQ DX" as a general practice, and that anyone who sends more than a 3X3 CQ is always a W station. He also enumerated several other taboos such as rag chewing with rare DX, or working a rare one for the second time. Claude explained the importance of using the same antenna for receiving and transmitting, and of listening for key commercial stations for an indication of band conditions.

If you missed this program, you missed a good one.

February 28, 1964

Earl Springer, ex-W9BWL, W9HTB, gave the club an interesting talk on "Pulse Techniques as Used in Air Traffic Control."

Earl, who started flying in 1932, explained how his approximately 400 hours of flying each year in all kinds of weather brought him into the field of air traffic control. When flying under instrument conditions, aircraft are required to fly a definite course and altitude plus or minus 6 miles horizontally and 100 feet vertically.

This close tolerance, he said, necessitates a radar system which enables the control center to identify aircraft. This is accomplished by transmitting an interrogating emission from the control center to the aircraft which triggers a pulsed reply from the transponder unit in the plane. The pulsed reply is translated by a decoding unit and read out as assigned numbers on nixie tubes or similar devices.

Pulse separations are on the order of 2.9 microseconds, and them is mighty small chunks of time.

Springer also displayed engineering models of equipment which he has been developing during the past three years.

* * * * *

Education is man's going forward from cocksure ignorance to thoughtful uncertainty. -- Kenneth G. Johnson

SETTING THE RECORD STRAIGHT

The following letter, dated February 24, 1964, has been received by the IRC from the ARRL:

"TO ALL AFFILIATED CLUBS:

I believe your members will be interested in the following portion of a letter being sent today to all ARRL directors, vice-directors and assistants:

The current issue of 73 Magazine contains, among others, several items of particularly flagrant misinformation. The facts are:

"1) There is no high-frequency allocations conference planned for 1965. There is a plenipotentiary conference scheduled for Geneva next year, long-planned to coincide with the 100th anniversary of the founding of the International Telecommunications Union and its predecessors. It will not deal with over-all allocations matters. The magazine's editor apparently does not know the difference between a plenipotentiary conference and an administrative conference. The fact is that the Swiss government has informed the ITU that it does not want an administrative conference to be held in Geneva in 1965. A CCIR (technical study) conference is scheduled for 1966, and its decisions will be desirable as background for the eventual allocations (administrative) conference. Thus the earliest practical date for an allocations conference is 1967. It is the unanimous opinion of communications authorities in the Department of State, Office of Emergency Planning, FCC, and the ITU itself, with whom we have discussed this subject at length in months past as well as currently, that the conference is at least three years in the future, and more likely four or five. This is, for example, the basis for President Hoover's statement in his convention addresses, as per January QST.

"2) FCC is not due to announce in March its decision on RM-499. The Chairman of the Commission has indicated to us that because of heavy workload in other fields (e.g., Citizens Band rules revision in process), and the need for careful study and evaluation of the League's and other related proposals in the same area of regulation, it will be at least several months before FCC can formulate its decision.

"3) President Hoover has said unequivocally that the 73 editorial statement about his impending resignation is totally unfounded, that he remains honored and proud to represent the League and its Board decisions, and that he is willing to serve as president as long as it meets the Board's pleasure. Since the erroneous 73 item is stated as coming from "responsible sources," you may be better able to evaluate the accuracy of other statements in the editorial."

Sincerely yours,
John Huntoon
General Manager

P.S. Last week President Hoover, General Counsel Booth and I appeared at a meeting of the House Committee on Interstate and Foreign Commerce concerning amateur reciprocal licensing privileges. The Committee seemed favorably impressed with the testimony of FCC and the League, and we have reason to expect an affirmative recommendation from the Congress to the House."

* * * * *

A fanatic is one who can't change his mind and won't change the subject. --Winston Churchill

* * * * *

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The Ama-Chewer received four answers to last month's puzzle: two were correct, one almost correct, and one incorrect! Joe Poston, K9GCE and Bill Akin, K9YDO, submitted the correct answer, which was 8 ohms. Ward Studor, WA9CCX, used the correct formula, but used decimals instead of common fractions, and wound up with some cumbersome figures that didn't quite smooth out to an integral number in his answer. The incorrect solution was submitted by . . . ah . . . well, never mind, we all make mistakes. Iffen you wonder how to solve it, go back to last month's issue and study the diagram again. You'll find those resistors are actually all in parallel! Sneaky, aren't we?

Now, here's a puzzle along somewhat different lines than the ones we've been running. This one was submitted by Ray Andrews, K9DUR, a student at Rose Poly, who found it in an old issue of QST. Incidentally, he says it's been quite a while since he's worked Indianapolis, and requests locals turn their beams toward Terre Haute. "We operate usually around 50.225 under the club call W9NAA," he says.

All the information needed to solve the problem is contained in the following story. Every statement has an important bearing on the solution.

Six active hams, W7DEF, W8GHI, W6ABC, W9JKL, W5HMO, and W7PQR, formed a traffic relay net. W6ABC couldn't copy over 15 wpm. A 30-word message was sent at 10 o'clock. W9JKL was nearsighted. The message was received while W5MNO, who suffered a broken arm the day before, was eating crackers in bed, with the curtain down to keep the sun out of his eyes. The receiver of the message noted the time on the message as being received at 10:01. W7DEF worked every day in a shoe store, while his friend, W7PQR, was out of a job. W8GHI was on the air from 9 to 11 p.m. every night, but only operated for the two hours. Who received the message?

* * * * *

THE GOOD OP EQUATION

From the "Radiogram" published by The Carolina Radio Monitors' League: "Listening plus waiting plus patience equals courtesy plus contacts."

R. J. Kryter came to speak on "Figures Don't Lie!" Passing out cigars was Pete Jennings, W9RFY, who became the proud pop of a brand new junior op. In line with WERS work, Virgilius Braun set up equipment to check transmitter frequencies for those who were able to hold frequency. This was in the days of super regen receivers. Quite some time was being devoted to getting operators signed up, equipment operating and activities planned to make sure the equipment was to be able to cover the city in case of need.

It was reported in the next issue of Ama-Chewer that the night that Bob Kryter gave his talk, the city had a black out and that Bob somewhat curtailed his talk, to, shall we say, keep his audience out of the dark. At this meeting Bill Lueth was heard to lament that someone had walked away with his brown Fedora and left a black version in its stead. Further investigation uncovered the fact that Bill himself was the guilty party. It seems he had worn his dad's hat that evening. McGee, W9YZQ, reported in from the Navy at Corpus Christi that the electronic gear there would make a ham turn green with envy. Max Stout reported in at the same time from sea duty with the Pacific fleet. This writer was reported back in town on an industrial furlough and was planning on getting to club meetings. Bill Hibbert, W9ENJ, reported from Bolling Field in Washington, D. C., where he was with the Air Support Command. Wade Kingery, W9JGZ, was reported taking a physical in Chicago for duty in the Signal Corps.

GRAHAMS SPECIALS OF THE MONTH

Hallicrafter HT 37 SSB Transmitter	\$375.00
Hallicrafter HT 41 Linear Amp.	275.00
Hallicrafter SX 101 Mark III	250.00
Hallicrafter SR-150 Tranceiver	569.00
Drake 2B with Xtal Calibrator	235.00
Hammarlund HX 50	369.00
Hammarlund HQ 129X	97.50
Johnson Ranger I	165.00
Gonset G-76 Transceiver with AC supply	275.00
Glegg 99er 6 meter Transceiver	129.00

Official Bulletin number 936 Feb. 13

The American Red Cross and the American Radio Relay League, working partners in major disasters for many years, February 5th signed a new statement of understanding aimed at increasing the effectiveness of future operations. Presidents Alfred M. Gruenther of the Red Cross and Herbert Hoover Jr. W6ZH of ARRL were principals in the signing ceremonies. The new understanding is expected to further the organized cooperation of radio amateurs in their handling of disaster communications of concern to the Red Cross through the medium of the Amateur Radio Public Service Corps. Further information will appear in April QST.

Official Bulletin number 937 Feb. 20

FCC has announced that amateur applications mailed March 17 or later must carry the appropriate fee as shown on page 79 December QST. The Circuit Court of Appeals in Chicago has dissolved its temporary injunction against FCC license application fees. Until the Court has opportunity to decide the basic question it has ruled the Commission may institute its fee system provided complete records are kept and the receipts are deposited in a special account. Accordingly FCC has announced that fees will be required with any application postmarked March 17 or later.

Official Bulletin number 938 Feb. 27

Attention DXers. Announcement is hereby made of the addition to the ARRL Countries List of the Crozet Islands. The Crozet Islands are located in the South Indian Ocean approximately 750 miles west northwest of the Kerguelen Islands. Confirmations for the Crozet Islands may be submitted starting June 1, 1964. April 1964 QST will carry further details.

Official Bulletin number 939 Mar. 5

Every active amateur is invited to submit a monthly station activity report to his Section Communications Manager on the first of each month. Your SCM welcomes club, net or traffic news as well as operational data from individuals and other groups, and also invites application for one of the many ARRL field organization posts available to qualified amateurs. Appointments are available along the line of your natural interest to aid in your operating pleasure. Novice or Technician Licensees interested in VHF may be eligible for Official Experimental Station appointment, while Gene-

ral and higher class amateurs may qualify for appointments such as ORS OPS OO or OBS, in addition to OES. SCMs will also consider applications from Technicians for OBS and VHF PAM. Your SCM, address page 6 QST, will be happy to furnish forms and additional data.

* * * * *

TAKING STOCK

The following is from the 29th annual report of the FCC:

This year is the 50th anniversary of licensing of ham radio. Starting with 1,000 pioneer hams (1912) there are now 250,000 licensees operating 255,000 stations. Amateur licensees in the year took part in developing and preliminary testing of a wide-band translator satellite . . . amateurs also bounced UHF signals off the moon and established records communicating 5,092 miles Hawaii to Massachusetts, frequencies above 1200 mc. The 50-watt power limitation on use of 420-450 mc. band was removed. Log requirements for mobile stations were relaxed and modified sharing of 1800-2000 band with Loran announced.

Class station	June 30 1962	June 30 1963	Increase
Citizens	305,138	446,590	141,452
Amateur	237,159	255,140	17,981
Disaster	411	431	20
RACES	14,089	15,267	1,178

A one-week survey of Citizens Radio Service consumed 550 man days and detected 7200 violations in this service alone. During fiscal '63, 520 unlicensed transmitters were discovered . . . of the number, 343 were illegal Citizens radios. (The others were on small boats, private aircraft and some used by juveniles as "broadcast stations.")

* * * * *

From Grid Leaks, bulletin of the Jamaica (NY) UHF Amateur Club, by Julian Jablin, W2PQP: "Amateur radio is a hobby, but it isn't a toy. We can use our rigs for idle talk--but we should draw the line at nonsense . . . age doesn't enter into it--we've heard some pretty idiotic old-timers. There used to be a real sense of purpose in the pursuit of ham radio--let's try to get it back among hams, young and old."

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